

CONTRIBUTIONS TO THE KNOWLEDGE  
OF THE PSEUDOSCORPIONS

FROM MATERIAL BELONGING TO THE MUSEO CIVICO IN GENOVA

By EDV. ELLINGSEN, Kragerö (Norway).

---

The chief part of the material, treated in the following, is due to the assiduous collecting of several Italian naturalists, who, year after year, are contributing to the knowledge of the Italian fauna. I am very much obliged to the authorities of the Museo Civico for the confidence shown to me, by letting me examine these collections. The whole material belongs to the Museo Civico with the exception of those specimens collected by Dr. A. H. Krausse at Oristano in Sardinia.

I. ITALIAN ISLANDS.

**Chelifer politus** E. SIMON.

Sardegna: Oristano, 1 ♂, 1 ♀ (Dr. A. H. Krausse).

**Chelifer lacertosus** L. KOCH.

Sardegna: Oristano, many specimens of both sexes (Dr. A. H. Krausse).

**Chelifer anachoreta** E. SIMON.

Sardegna: Golfo Aranci, 5 ♂, 7 ♀ (T. Derosas) - Is. Giglio, 1 ♂, 1 ♀ (G. Doria).

This species is probably only a variety of *Chelifer lacertosus* L. Koch, differing from this by having the tibia of the palps, at least often, somewhat less globose, often with the most pronounced convexity near the base of the inner side, and the hand less

rounded, more tapering towards the fingers (*Chetifer lacertosus* having the inner side of tibia more regularly convex and the hand more globose); further, the fingers of *Ch. anachoreta* are proportionally shorter, the hairs of the lower side of abdomen nearly acute. — But it is often very difficult to distinguish the two species. — I have also seen specimens of *Ch. anachoreta* from the Italian continent, collected near Rome by Mr. Adolfo Rossi.

**Chelifer tuberculatus** LUCAS.

Sardegna: Golfo Aranci, 1 ♀ (A. Dodero); Campeda 1 ♂ (A. Dodero); Is. Asinara, 2 ♂, 1 ♀ (S. Folchini); Tempio, 1 ♀ (Dodero); Ozieri, 3 ♂, 1 ♀ (Dodero).

Sicilia: Messina, 2 ♀, 1 ♀, 1 jun. (Dodero); Castelbuono, 1 young specimen (Dodero); Ficuzza, several specimens (Dodero); Fiume di Nisi, 1 specimen (Dodero).

**Chelifer maculatus** L. KOCH.

Is. Gorgona, 1 ♂, 1 ♀, 2 jun. (Dr. Andreini). — Sardegna: Ozieri, 1 ♀, 1 jun. (A. Dodero); Oristano, several specimens of both sexes (Dr. A. H. Krausse).

**Chelifer peculiaris** L. KOCH.

Sicilia: Ficuzza, 1 ♂ (A. Dodero).

**Chelifer Latreillii** LEACH.

Sicilia: Pachino, 3 ♀ (A. Dodero). — Sardegna: Golfo Aranci, 1 ♂, 1 ♀ (Dodero); Oristano, a great many specimens, ♂ and ♀ (Dr. A. H. Krausse). All the specimens are of the mediterranean variety.

**Chelifer meridianus** L. KOCH.

Sardegna: Oristano, 3 specimens (Dr. A. H. Krausse).

**Chelifer hispanus** L. KOCH.

Sardegna: Oristano, 2 ♀ (Dr. A. H. Krausse). This species has not yet been recorded from Italy; it was originally described from Spain, but has afterwards been indicated for France by E. Simon, and by Daday for Eastern Europe and Caucasia.

**Garypus minor** L. KOCH.

Sardegna: Golfo Aranci, 1 ♂ (T. Derosas); Oristano, many specimens (Dr. A. H. Krausse). — Is. Gorgona, 1 jun. (Dr. Andreini).

**Garypus Beauvoisi** SAVIGNY.

Syn.: *Garypus litoralis* L. Koch.

Sardegna: Is. Asinara, 1 ♀ (S. Folchini).

**Olpium deserticola** E. SIMON.

Sicilia: Messina, 1 ♂ (Dodero). I can find no difference between this specimen and such from Africa; this species has not been recorded from Europe before now, but has been found along the mediterranean coast of Africa.

**Obisium lubricum** L. KOCH.

Sardegna: Golfo Aranci, 1 specimen (A. Dodero); Is. Asinara, 1 specimen (S. Folchini). — Sicilia: Fiume di Nisi, 5 specimens (A. Dodero).

**Obisium Doderoi** E. SIMON.

Sardegna: Golfo Aranci, 2 specimens (A. Dodero). — Sicilia: Messina, 5 specimens (A. Dodero); Pachino, 1 specimen (A. Dodero); Ficuzza, 7 specimens (A. Dodero).

**Chthonius tetrachelatus** PREYSSLER.

Sardegna: Ozieri, 1 ♀ (A. Dodero); Macomer, 4 ♂ (A. Dodero).

## II. CONTINENT OF ITALY.

**Chelifer Chyzeri** TOMOSVÁRY.

Toscana: Lippiano, 5 specimens (Dr. Andreini).

**Chelifer phaleratus** E. SIMON.

Lucania: Monte Scuro, 1 ♀ (Solari).

*Chelifer phaleratus* E. Simon, *Ch. Wideri* C. L. Koch and, I suppose, *Ch. Solarii* E. Simon form, among the eyeless Chelifers of the « Subgenus » *Trachychernes* a small group, closely allied and distinguished from the other palearctic *Trachychernes* by their very elongated tibia of the palps, and separated from each other by their more or less robust palps, *Ch. Wideri*, and *Ch. Solarii* taking, in this respect, the extremes, and *Ch. phaleratus* having an intermediate place between the two others.

**Chelifer scorpioides** HERMANN.

Toscana: Lippiano, 4 ♂, 5 ♀ (Dr. Andreini). — Livorno, 1 ♀ (Dr. Andreini).

**Chelifer cimicoides** FABR.

Grosseto: Moscone (Dr. Andreini).

**Chelifer tuberculatus** LUCAS.

Grosseto: Monte Argentaro, 11 specimens (A. Dodero); Moscone, 2 ♀, 1 jun. (Dr. Andreini); Poggio Cavallo, 2 ♂, 2 ♀ (Dr. Andreini). — Napoli: Camaldoli, 10 specimens (Solari). — Lucania: Vallo Lucano, 10 specimens (Solari). — Toscana: Piastre presso Pistoia, 1 ♂ (Solari). — Liguria: Voltaggio, 1 ♂ (Dodero). — Toscana: Livorno, 2 ♀, 1 jun. (Dr. Andreini).

**Chelifer maculatus** L. KOCH.

Genova, 1 ♀ (Dr. R. Gestro).

**Chelifer meridianus** L. KOCH.

Lucania: Vallo Lucano, 1 jun. (Solari). — As to the sexual area of the male belonging to the *Ch. cancroides* type and provided with lateral keels.

**Chelifer Latreillii** LEACH.

Grosseto: Poggio Cavallo, 1 ♀ (Dr. Andreini). The specimen belongs to the principal form.

**Chelifer cancroides** L.

Torino: Coazze, 1 ♀ (E. Marengo).

**Chelifer subruber** E. SIMON.

Grosseto: Poggio Cavallo, 4 ♂, 1 ♀, 1 jun. (Dr. Andreini).

**Garypus minor** L. KOCH.

Napoli: Camaldoli, 1 ♂ (Solari). — Lucania: Vallo Lucano, many specimens (Solari). — Toscana: Livorno, 1 ♀ (Dr. Andreini). — Grosseto: Moscone (Dr. Andreini); Poggio Cavallo, 1 ♀ (Dr. Andreini).

**Garypus Beauvoisi** SAVIGNY.

Genova: Boccadasse, 1 specimen « in casa » (G. Mantero).

**Obisium antrorum** E. SIMON.

Liguria orient.: Grotta di Cassana, 3 ♂, 4 ♀.

**Obisium lubricum** L. KOCH.

Liguria orient.: Grotta Spadoni, 11 specimens (Solari). — Alpi Marittime: Val Pesio, many specimens (A. Dodero). — Appennino Ligure: Crocefieschi, 1 specimen (Dodero). — Lucania: Monte

Scuro, 1 jun. (Solari). — Genova: Villetta Dinegro, 1 specimen (A. Doderò). — Toscana: Piastre presso Pistoia, 7 specimens (Solari). — Torino: Val d'Aosta, Brusson, 1 specimen (Solari). — Liguria: Ruta, 2 specimens (Solari). — Voltaggio, 1 specimen (Doderò). — Toscana: Livorno, 10 specimens (Dr. Andreini). — Grosseto: Moscone, 13 specimens (Dr. Andreini); Poggio Cavallo, many specimens (Dr. Andreini).

**Obisium Doderoi** E. SIMON.

Napoli: Camaldoli, 1 specimen (Solari). — Lucania: Vallo Lucano, 8 specimens (Solari). — Massa: Castelnuovo di Garfagnana, 1 specimen (A. Doderò); 3 specimens (Dr. Andreini); — Grosseto: Poggio Cavallo, many specimens (Dr. Andreini); Arcidosso, 1 specimen (R. Gestro). — Liguria orient.: N. S. di Montallegro, 1 specimen (Solari). — Ruta, 2 young specimens, probably this species (Solari). — Toscana: Lippiano, 1 jun. (Dr. Andreini); Livorno, 13 specimens (Dr. Andreini).

**Obisium sublaeve** E. SIMON.

Toscana: Piastre presso Pistoia, 8 specimens (A. Solari). — Alpi Marittime: Val Pesio, 2 specimens (A. Doderò). — Toscana: Lippiano, 1 specimen (Dr. Andreini).

**Obisium muscorum** LEACH.

Grosseto: Poggio Cavallo, 4 specimens (Dr. Andreini). — Toscana: Piastre presso Pistoia, 2 specimens (Solari). — Torino: Val d'Aosta, 1 specimen (Solari). — Toscana: Lippiano, 1 specimen (Dr. Andreini); Livorno, 2 specimens (Dr. Andreini).

**Obisium dunicola** C. L. KOCH.

Lucania: Monte Scuro, 1 specimen (Solari). — Liguria orient.: Monte Penna, 1 specimen (R. Gestro).

**Chthonius tetrachelatus** PREYSSLER.

Lucania: Vallo Lucano, 1 ♂, 2 ♀, (Solari). — Grosseto: Poggio Cavallo, 5 specimens (Dr. Andreini). — Toscana: Livorno, 2 ♂, 4 ♀ (Dr. Andreini).

**Chthonius Rayi** L. KOCH.

Napoli: Camaldoli, 7 specimens (Solari). — Lucania: Vallo Lucano, 1 ♀ (Solari). — Spezia: Grotta Spadoni, 9 specimens (Solari). — Massa: Castelnuovo di Garfagnana, 2 specimens (Dr. Andreini). — Grosseto: Poggio Cavallo, 5 specimens (Dr. Andreini); Arcidosso, 1 ♂, 5 ♀ (R. Gestro). — Liguria: Voltaggio, 3 ♂ (Dodero); M. Gazzo, Grotta della Bathyscia, 1 ♂, 2 ♀ (Mañtero). — Toscana: Livorno, 2 ♂, 4 ♀ (Dr. Andreini). — Prov. Roma: Filettino, 2 ♂, 1 ♀ (Dodero).

**Chthonius tenuis** L. KOCH.

Massa: Garfagnana, Grotta di Magnano, 2 specimens (A. Dodero); Castelnuovo di Garfagnana, 3 ♂ (A. Dodero). — Grosseto: Poggio Cavallo, 5 specimens (Dr. Andreini). — Alpi Marittime: Val Pesio, 3 specimens (R. Gestro). — Alpi Pennine: Giomein, 2000 m. above the sea, 1 ♀ (Solari). — Torino: Val d'Aosta, Brusson, 2 specimens (Solari). — Liguria: Crocefieschi, 1 ♂ (A. Dodero). — Toscana: Piastre presso Pistoia, 2 ♀ (A. Solari).

**Chthonius orthodactylus** LEACH.

Grosseto: Poggio Cavallo, 10 specimens (Dr. Andreini). — Alpi Marittime: Val Pesio, 1 ♀ (R. Gestro). — Toscana: Livorno, 3 ♀, 1 jun. (Dr. Andreini).

It is very doubtful, if this species is Leach's species, but I feel certain that it is that of L. Koch and E. Simon. It is characterized by the very dense row of small teeth on the inner margin of the fixed finger of the palps.

**Chthonius cephalotes** E. SIMON.

Alpi Marittime: Certosa di Pesio, « sotterranei » 2 ♂, 1 ♀  
(Dr. R. Gestro).

**III. FRANCE: EASTERN PYRENEES.**

The whole material was collected by A. Doderø.

---

**Chelifer phaleratus** E. SIMON.

Ariège: Massat, 1 young specimen.

**Ideobisium pyrenaicum** nov. sp.

Two very small eyes, one on each side, at a great distance from the front margin; the eyes are sometimes so little conspicuous, that they are difficult to be seen.

Colour. Cephalothorax, sclerites, mandibles and palps of a pale brownish colour, the interstitial parts and the legs whitish.

Cephalothorax longer than wide, in the greatest part parallel-sided, before the eyes somewhat contracted; the front margin with a darker coloured stripe, from the middle a little oblique towards the sides, in the middle with no tooth proper, only angularly produced. The surface smooth and glossy, with moderately long, pointed hairs.

Abdomen smooth and glossy with long, pointed hairs and « tactile » hairs on the last segment.

Palps about as long as the body, when the abdomen is extended, slender and glossy. The joints are more or less strongly granulated, except the fingers and the lower side of femur; the granulation is less pronounced on the lower side of trochanter, tibia and hand, most strongly on the anterior and the upper side of femur and on the upper side of the hand. The hairs are long and acute; the hairs of the outer side of the palps a little shorter than those of the inner side. — Trochanter with a short stalk, considerably longer than wide, the inner side nearly

straight, the outer side regularly convex. Femur with a short stalk, the inner side very slightly convex, behind obliquely widened from the stalk, the hinder margin nearly straight; femur altogether nearly parallel-sided. Tibia with a moderately long, somewhat curved stalk, considerably shorter and but a little broader than femur, elongate, behind slightly and regularly convex, in front somewhat abruptly widened from the stalk, the front margin moderately convex, a little concave towards the extremity, altogether but little narrowed towards the tip. Hand with a rather long stalk, with obliquely rounded base, the anterior side strongly convex, behind slightly convex or nearly flat, on both sides passing gradually into the fingers; the hand is only a little broader than the tibia. Fingers robust and narrowing distally, rather strongly curved, considerably longer than the hand, both fingers on the inner margin provided with numerous, truncate teeth, closely set.

Mandibles of rather small size, the stem much shorter than the moveable finger; the outer side of the fixed finger nearly straight; the moveable finger with some small teeth on the inner margin in the distal half, the fixed finger with similar small teeth along the whole inner margin. The moveable finger with a curved, stylet-shaped galea, with some very minute teeth at the extremity.

Legs with moderately long, pointed hairs; the femora of the two posterior pairs very broad. The coxa I. provided with a small, brown point at the exterior corner. Claws simple.

Length (♂), with extended abdomen, 1.86 mm., width 0.60 mm.

Measurements. ♂. Cephalothorax: long. 0.54; lat. 0.48. Mandibles: long. 0.29. Femur: long. 0.59; lat. 0.17. Tibia: long. 0.44 (of which the stalk 0.11); lat. 0.19. Hand: long. (the stalk excepted) 0.40; lat. 0.26. Fingers: long. 0.60 mm.

Habitat. France, Ariège: Grotte des Neuf fonts à Aulus, 4 specimens; Ariège: Massat, 2 specimens, in both places collected by A. Doderò, 1904.

The new species is, as regards the shape of the palps, quite different from the few European forms of *Pseudobisium*, described till now; but it has rather much in common with two species which Eug. Simon has described as respectively *Obisium lucifugum* and *Ob. Stussineri*, the former from Southern France, the

latter originally from Krain, later on also found in Italy. It will then depend on the possibility, that E. Simon might have overlooked the galea, what Balzan indeed means as regards *Ob. lucifugum*. The new species differs at all events from that just mentioned by having distinctly granulated palps, even the tibia, and also from *Ob. Stussineri* by having much longer fingers and a very slender hand; but E. Simon has (without any description) put up a var. *tenuimanus* from Italy, and indeed, the figure, given by E. Simon, of the palp of *Ob. Stussineri* (the principal form), has a close likeness with that of the new species, except as to the shape of the hand. Only a comparing with the types will decide the question.

**Obisium lubricum** L. KOCH.

Pyrenées-Orientales: Vernet, many specimens; Montlouis, many specimens; Preste, 1 specimen.

**Obisium cavernarum** L. KOCH.

Ariège: Grotte supérieure de la Grange près Baulou, 1 specimen.

**Obisium Simoni** L. KOCH.

Ariège: Massat, 2 specimens.

**Obisium simile** L. KOCH.

Aude: Alet, 3 specimens.

**Obisium praecipuum** E. SIMON.

Hautes-Pyrenées: Gavarnie, 2 specimens.

**Obisium manicatum** L. KOCH.

Pyrenées-Orientales: Montlouis, 3 specimens. — Ariège: Massat, 8 specimens.

**Chthonius tenuis** L. KOCH.

Ariège: Massat, 2 ♂; Grotte des Neuf fonts à Aulus, 1 ♀. — Pyrenées-Orientales: Preste, 1 ♂. — Hautes-Pyrenées: Gavarnie, 5 specimens.

**IV. ROUMANIA.**

The material was collected by A. L. Montandon.

**Chelifer Chyzeri** TÖMÖSVÁRY.

Wallachia: Bucarest, 1 ♀; Comana Vlasca, 2 ♂, 1 jun. — Moldavia: Vall. du Berlad, 1 ♂, 1 ♀.

**Chelifer Cyrneus** L. KOCH.

Wallachia: Comana Vlasca, 1 ♂.

**Chelifer scorpoides** HERMANN.

Wallachia: Comana Vlasca, 1 ♀, — Moldavia: Vall. du Berlad, 1 ♀.

**Chelifer cimicoides** FABR.

Wallachia: Comana Vlasca, a number of specimens; Sinaia (in the Carpathian mountains), 4 specimens. — Moldavia: Vall. du Berlad, many specimens. — Dobrudja: Măcin, 1 ♀.

**Chelifer Latreillii** LEACH.

Wallachia: Comana Vlasca, 1 ♂. — Moldavia Vall. du Berlad, 1 ♂, 1 ♀. — Dobrudja: Măcin, 1 ♀.

The Roumanian specimens belong to the principal form, but have the hand somewhat more slender, especially in the males, than English specimens.

**Chelifèr canceroides** L.

Wallachia: Bucarest, 5 specimens; Comana Vlasca, 5 ♂, 1 jun. — Dodrudja: Măcin, 1 ♂.

**Obisium lubricum** L. KOCH.

Wallachia: Sinaia, 5 specimens.

**Obisium erythroactylum** L. KOCH.

Wallachia: Sinaia, 21 specimens; Azuga, 1 specimen jun.; Bucureci, 1 specimen jun.; Comana Vlasca, 1 specimen jun.

**Obisium dunicola** C. L. KOCH.

Moldavia: Vall. du Berlad, 13 specimens.

**Obisium macroactylum** DADAY.

Wallachia: Bucarest, 4 specimens; Comana Vlasca, 1 specimen.

**Obisium cephalonicum** DADAY.

Wallachia: Comana Vlasca, 4 specimens.

The palps of this species have a remarkable likeness with those of the true *Roncus*.

**Chthonius tetrachelatus** PREYSSLER.

Wallachia: Bucarest, a number of specimens; Comana Vlasca, 10 specimens. — Moldavia: Vall. du Berlad, 1 ♀.

**Chthonius orthodactylus** LEACH.

Wallachia: Bucarest, 4 ♂; Comana Vlasca, a great many specimens.


***Chthonius cavernarum* nov. sp.**

Two small eyes on each side; the anterior eye well developed and about one diameter from the front margin, the posterior one less developed and more diameters from the former.

Colour. All parts of the animal, the legs included, pale reddish brown, the interstitial parts more whitish.

Cephalothorax about as long as broad in front, much narrowed backwards, the lateral margins slightly convex, a little contracted in front of the eyes. The front margin nearly straight, the central part with a slight depression and minutely dentated. The surface slightly shagreened and glossy, with long, pointed hairs.

Abdomen. The sclerites distinctly striped transversally, but they have no proper shagreening; glossy, with long, pointed hairs.

Palps long, longer than the body, slightly shagreened, glossy, with long, pointed hairs. — Trochanter with a very short stalk, this excepted scarcely longer than wide, only a little visible from above, convex in front, concave behind. Femur with no distinct stalk, very long, more than twice as long as the cephalothorax, the inner margin nearly straight, behind a little widened at the base and in the distal part, in the central part slightly concave. Tibia of the usual shape, short. Hand with no stalk, about twice as long as broad, the outer and the inner side slightly convex, nearly parallel-sided, rather abruptly narrowed at the base of the fingers. Fingers long, the fixed finger twice as long as the hand, the moveable one considerably shorter than the former; seen from above, the fingers appear straight; laterally seen, the fixed finger is curved like , the tip much curved, the inner margin provided with strong, conical, straight teeth, with very large intervals; in these intervals there are in some places, not everywhere, traces of one or two very small teeth; the teeth are, towards the base of the fingers, growing smaller and more closely set. The moveable finger is considerably shorter than the fixed one, considerably curved, the inner margin in the distal part provided with small, conical teeth, smaller than those of the fixed finger, also with great intervals, but with no traces of smaller teeth between them; the teeth are growing lower backwards.

Mandibles very large, as long as the cephalothorax; the fingers

considerably shorter than the bulk; the fixed finger has on the inner margin one very large tooth, in front of this one smaller and behind a row of small ones; the usual tooth-like widening outside at the curvature is present.

Legs very long, the posterior pair considerably longer than the length of the body; the hairs simple and pointed; the femora of the posterior pair moderately broad. Claws simple.

Length 2.36 mm.

Measurements. Cephalothorax: long. 0.64; lat. in front 0.61. Mandibles: long. 0.64. Femur: long. 1.37; lat. near the tip 0.16. Tibia: long. 0.36; lat. 0.20. Hand: long. 0.60; lat. 0.29. Fingers, the fixed: long. 1.14; the moveable: 0.94. The IV pair of legs: long. 2.9 mm.

The most characteristic in this species are the fingers of the palps: their shape, their unequal length and their dentition; I know no other species with which it as regards this might be confounded. The species certainly is, in spite of the presence of the eyes, a cave-form, on account of the long palps and the long legs.

I received this species already several years ago, in 1904, from Mr. Josef Sever in Trieste, who had collected the animals in Krain (Austria), in two localities: the Bischofflacker Grotte (20 specimens) and the Zaorlihöhle (2 specimens), but I have not had an opportunity to publish the species till now.

In the collection, treated in this paper, belonging to the Museo Civico di Genova, the species is represented by 4 specimens (2 ♂, 1 ♀, 1 jun.), collected in Wallachia: Sinaia. If these specimens were taken in caves is not stated.

## V. TROPICAL SPECIES.

### AFRICA.

#### **Chelifer Sjöstedti** TULLGREN.

Congo: Itimbiri, 1 ♂. XII. 1905 (M. Ribotti).

#### **Chelifer Simoni** BALZAN.

Eritrea: Ghinda, 1 ♂, 1 ♀. III. 1906 (Dr. C. Figini).

**Chthonius contractus** TULLGREN.

Eritrea: Ghinda, 1 ♀. III. 1906 (Dr. C. Figini).

## ASIA and AUSTRALIA.

**Chelifer navigator** With.

Java: Batavia, 2 ♂, 2 ♀. III. 1889 (Dr. L. Loria).

**Chelifer borneoensis** ELLINGSEN.

British New Guinea: Ighibirei, 3 ♂. VIII. 1890; Kapa-Kapa, 1 ♂. VI. 1891 (Dr. L. Loria).

**Chelifer Thorelli** BALZAN.

Borneo: Sarawak, 5 specimens (G. Doria). The specimens were dried up. Balzan's type was from Sumatra.

## AMERICA.

**Chelifer macrochelatus** TÖMÖSVÁRY.

Peru: Rio Pichis, 3 ♂, 2 ♀, 1902, « sotto le elitre di *Acrocinus longimanus* L. » (Dr. L. Pesce Maineri); Rio Chamayo, 1 specimen jun. (Dr. L. Pesce Maineri).

**Chelifer Floridae** BALZAN.

Nicaragua: Sierra las Mercedes, 1 specimen, 1898 (Solari); Managua: 1 ♀ (Solari).

Nathan Banks records some examples of this species from Florida, stating the hairs not to be clavate; in the animals from Nicaragua the hairs are distinctly clavate, especially those of abdomen and some parts of the palps, as also stated by Balzan for the type.

**Chelifer maculatus** L. KOCH.

Nicaragua: Managua, 1 ♂, 1 young ♀ (Solari).

It is quite impossible to detect any specific difference between the adult male from Nicaragua and Italian males of this species; the young ♀ is somewhat more doubtful; it is of a very pale colour, yellowish brown, and is missing the greater granules of the palps. — These specimens have certainly been imported to Nicaragua from the North of Africa or from Southern Europe, where the species is common.

---